



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 130569

TO: Ilia Ouspenski
Location: 3d74 / 3c70
Tuesday, August 24, 2004
Art Unit: 1644
Phone: 272-2920
Serial Number: 09 / 888324

From: Jan Delaval
Location: Biotech-Chem Library
Rem 1A51
Phone: 272-2504

jan.delaval@uspto.gov

Search Notes

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: _____ Examiner #: _____ Date: _____
Art Unit: _____ Phone Number 30 _____ Serial Number: _____
Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Jan</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>27504</u>	AA Sequence (#) <input checked="" type="checkbox"/>	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>8/24</u>	Bibliographic _____	Dr. Link _____
Date Completed: <u>8/24</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems <input checked="" type="checkbox"/>
Clerical Prep Time: <u>60</u>	Patent Family _____	WWW/Internet _____
Online Time: <u>10</u>	Other _____	Other (specify) _____

130569

Delaval, Jan

From: Ouspenski, Ilia
Sent: Tuesday, August 24, 2004 10:00 AM
To: Delaval, Jan
Subject: sequence search for 09/888,324

Dear Jan,

Please provide polypeptide search for SEQ ID NO:66 for 09888324.

Thanks,

Ilia

ILIA OUSPENSKI, Ph.D.
Examiner
Art Unit 1644
Phone: 571-272-2920
REM 3D74
Mailstop 3c70

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OM protein - protein search, using sw model

Run on: August 24, 2004, 10:18:46 ; Search time 116 Seconds

(without alignments)
824.155 Million cell updates/sec

Title: US-09-888-324-66

Perfect score: 1613
Sequence: 1 MGHMKWGLPPKRCPLMLSL.....FTVGTERTLSPYLGSAQSSG 303

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

1: SP archaea:*
2: SP bacteria:*
3: SP fungi:*
4: SP human:*
5: SP invertebrate:*
6: SP mammal:*
7: SP mhc:*
8: SP organelle:*
9: SP phage:*
10: SP plant:*
11: SP rodent:*
12: SP virus:*
13: SP vertebrate:*
14: SP unclassified:*
15: SP virus:*
16: SP bacteriophage:*
17: SP archaea:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1262.5	78.3	296	6	Q6405
2	962	59.6	296	6	Q6405
3	944.5	58.6	297	6	Q6405
4	930.5	57.0	304	6	Q6405
5	919	57.0	292	6	Q6405
6	912	56.5	292	6	Q6405
7	902.5	56.0	288	6	Q6405
8	864	53.6	230	6	Q6405
9	862	53.4	229	6	Q6405
10	830	51.5	288	6	Q6405
11	811	50.3	288	6	Q6405
12	802.5	49.8	288	6	Q6405
13	800	49.6	288	6	Q6405
14	800	49.6	289	6	Q6405
15	792.5	49.1	235	6	Q6405
16	691.5	42.9	294	11	Q6405

17	665	41.2	321	11	Q6405
18	665	41.2	321	11	Q6405
19	661	41.0	321	11	Q6405
20	657	40.7	290	11	Q6405
21	641	39.7	292	11	Q6405
22	639	39.6	306	11	Q6405
23	442	27.4	173	6	Q6405
24	434.5	26.9	174	6	Q6405
25	278	17.2	212	11	Q6405
26	230	14.4	323	6	Q6405
27	230	14.3	323	6	Q6405
28	230	14.3	323	6	Q6405
29	230	14.3	323	6	Q6405
30	230	14.3	323	6	Q6405
31	230	14.3	323	6	Q6405
32	217	13.5	323	6	Q6405
33	203	12.6	329	6	Q6405
34	201	12.5	284	6	Q6405
35	199.5	12.4	325	6	Q6405
36	193	12.0	314	11	Q6405
37	193	12.0	326	11	Q6405
38	192	11.9	321	11	Q6405
39	191	11.8	289	11	Q6405
40	190	11.8	289	11	Q6405
41	190	11.8	289	11	Q6405
42	189	11.7	313	11	Q6405
43	180.5	11.2	275	6	Q6405
44	179.5	11.1	296	13	Q6405
45	153.5	9.5	316	11	Q6405

ALIGNMENTS

RESULT 1	046405	PRELIMINARY;	PRT;	296 AA.
ID	046405	01-JUN-1998 (TREMBLrel. 06, Created)		
AC	046405	01-JUN-1998 (TREMBLrel. 06, Last sequence update)		
DT	01-JUN-1998	01-OCT-2003 (TREMBLrel. 25, Last annotation update)		
DE	CD80 antigen precursor (Fragment).			
OS	Bos taurus (Bovine).			
OC	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;			
OC	Bovidae; Bovinae; Bos.			
OX	NCBI_TaxID=9913;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RX	MEDLINE=99115507; PubMed=9914337;			
RA	Parsons K.R., Howard C.;			
RT	"Cloning of cattle CD80."			
RL	Immunogenetics 49:231-234 (1999).			
DR	EMBL; Y09950; CAA71081.1; -			
DR	HSSP; P33681; ID89.			
DR	InterPro; IPR003589; IG.			
DR	InterPro; IPR007110; IG-like.			
DR	Pham; PF00047; IG; 2.			
DR	SMART; SM00409; IG; 1.			
DR	PROSITE; PS50835; IG_LIKE; 2.			
FT	SIGNAL.			
FT	1	25		POTENTIAL.
FT	NON TER	296		
SQ	SEQUENCE	296 AA; 33618 MW; 7ADBI1PBF5F32EFS CRC64;		
QY	Query Match	78.3%; Score 1262.5; DB 6; Length 296;		
DB	Best Local Similarity	81.8%; Pred. No. 1.9e-112;		
	Matches 242; Conservative 19; Mismatches 32; Indels 3; Gaps 2;			
	1 MGHMKWGLPPKRCPLMLSLVLTGTFPSGITTPTKRVKVTMLSCDINTSTEE 60			
	1 MGHMKWGLPPKRCPLMLSLVLTGTFPSGITTPTKRVKVTMLSCDINTSTEE 60			

March 1999

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QY 61 LTRIRIYQKSDSKVIALIPGKQVWPEYKRRITTDNDNPRIVIALRPSDSGTTCVI 120
DB 61 LTRIRIYQKSDSKVIALIPGKQVWPEYKRRITTDNDNPRIVIALRPSDSGTTCVI 120
QY 121 QKPLKGAAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRLICTSGGFPRLHYME 180
DB 121 QKPLKGAAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRLICTSGGFPRLHYME 180
QY 181 NGEELNATNTTSGODPTELYMISSELDENVNTHNSIVCLIKYGEISVSGIFPWSKPKQE 240
DB 181 NGEELNATNTTSGODPTELYMISSELDENVNTHNSIVCLIKYGEISVSGIFPWSKPKQE 240
QY 241 PFIDOLPEFW-VIFPVS--GALVLTAVLYCLACRHVARMKRTRENEETGTERLSP 293
DB 241 PFIDOLPEFW-VIFPVS--GALVLTAVLYCLACRHVARMKRTRENEETGTERLSP 293

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21/208=

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RESULT 2
Q8NMZ2 PRELIMINARY; PRT; 296 AA.
ID Q8NMZ2;
AC Q8NMZ2;
DT 01-MAR-2002 (TREMBlrel. 20, Created)
DT 01-MAR-2002 (TREMBlrel. 20, Last sequence update)
DE 01-OCT-2003 (TREMBlrel. 25, Last annotation update)
DN CD80.
GN CD80.
OS Sus scrofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
OX NCBI_TaxID=9823;
RN [1]
RP SEQUENCE FROM N.A.
RA Tadaki D.K., Williams A., Lee K.P., Kirk A.D., Harlan D.M.;
RT "Porcine CD80: Cloning, characterization and evidence for its role in
RT direct human T-cell activation";
RL Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF45811; AAL58443.1; -
DR InterPro; IPR003599; IG.
DR InterPro; IPR007110; IG-like.
DR Pfam; PF00047; IG; 2.
DR SMART; SMO0409; IG; 1.
DR PROSITE; PSS0835; IG-LIKE; 2.
SQ SEQUENCE 296 AA; 33275 MW; 69E494237E79C98 CRC64;

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Query Match 59.6%; Score 962; DB 6; Length 296;
Best Local Similarity 63.6%; Pred. No. 1,le-83;
Matches 194; Conservative 36; Mismatches 63; Indels 12; Gaps 5;

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QY 1 MGHITMKGSLPPKRPCLMLISQILVGLFPGSGITPKSVTKRYKETWMLSCDYNSTSE 60
DB 1 MGHITMKGSLPPKRPCLMLISQILVGLFPGSGITPKSVTKRYKETWMLSCDYNSTSE 60
QY 61 LTRIRIYQKSDSKVIALIPGKQVWPEYKRRITTDNDNPRIVIALRPSDSGTTCVI 120
DB 61 LTRIRIYQKSDSKVIALIPGKQVWPEYKRRITTDNDNPRIVIALRPSDSGTTCVI 120
QY 121 QKPLKGAAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRLICTSGGFPRLHYME 180
DB 121 QKPLKGAAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRLICTSGGFPRLHYME 180
QY 181 NGEELNATNTTSGODPTELYMISSELDENVNTHNSIVCLIKYGEISVSGIFPWSKPKQE 240
DB 181 NGEELNATNTTSGODPTELYMISSELDENVNTHNSIVCLIKYGEISVSGIFPWSKPKQE 240
QY 241 PFIDOLPEFW-VIFPVS--GALVLTAVLYCLACRHVARMKRTRENEETGTERLSP 293
DB 241 PFIDOLPEFW-VIFPVS--GALVLTAVLYCLACRHVARMKRTRENEETGTERLSP 293
QY 299 AQSOGS 303
DB 299 AQSOGS 303
QY 291 VEGPG 295
DB 291 VEGPG 295

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RESULT 3
Q9BE99 PRELIMINARY; PRT; 297 AA.
ID Q9BE99;
AC Q9BE99;
DT 01-JUN-2001 (TREMBlrel. 17, Created)
DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
DE 01-OCT-2003 (TREMBlrel. 25, Last annotation update)
DN CD80 protein precursor.
GN CD80/B7-1.
OS Sus scrofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
OX NCBI_TaxID=9823;
RN [1]
RP SEQUENCE FROM N.A.
RA STRAIN=Landrace; TISSUE=ileal mucosa;
RA Wade M., Amas S., Sano N., Ishii T., Hoshi M., Sasaki H., Nio M.,
RA Hayashi Y., Ohi R.;
RT "Cloning and sequencing of cDNAs for porcine B7-1 (CD80) and soluble
RT isoforms";
RL Submitted (OCT-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB049760; BAB40952.1; -
DR HSSP; P33681; IDR9.
DR InterPro; IPR003599; IG.
DR InterPro; IPR007110; IG-like.
DR Pfam; PF00047; IG; 2.
DR SMART; SMO0409; IG; 1.
DR PROSITE; PSS0835; IG-LIKE; 2.
FT CHAIN 1 29 POTENTIAL.
FT SIGNAL 30 297 CD80 PROTEIN.
SQ SEQUENCE 297 AA; 33438 MW; 23109711EA63EF23 CRC64;

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Query Match 58.6%; Score 944.5; DB 6; Length 297;
Best Local Similarity 62.7%; Pred. No. 5,4e-82;
Matches 192; Conservative 38; Mismatches 63; Indels 13; Gaps 6;

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QY 1 MGHITMKGSLPPKRPCLMLISQILVGLFPGSGITPKSVTKRYKETWMLSCDYNSTSE 60
DB 1 MGHITMKGSLPPKRPCLMLISQILVGLFPGSGITPKSVTKRYKETWMLSCDYNSTSE 60
QY 61 LTRIRIYQKSDSKVIALIPGKQVWPEYKRRITTDNDNPRIVIALRPSDSGTTCVI 120
DB 61 LTRIRIYQKSDSKVIALIPGKQVWPEYKRRITTDNDNPRIVIALRPSDSGTTCVI 120
QY 121 QKPLKGAAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRLICTSGGFPRLHYME 180
DB 121 QKPLKGAAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRLICTSGGFPRLHYME 180
QY 181 NGEELNATNTTSGODPTELYMISSELDENVNTHNSIVCLIKYGEISVSGIFPWSKPKQE 240
DB 181 NGEELNATNTTSGODPTELYMISSELDENVNTHNSIVCLIKYGEISVSGIFPWSKPKQE 240
QY 241 PFIDOLPEFW-VIFPVS--GALVLTAVLYCLACRHVARMKRTRENEETGTERLSP 293
DB 241 PFIDOLPEFW-VIFPVS--GALVLTAVLYCLACRHVARMKRTRENEETGTERLSP 293
QY 299 AQSOGS 303
DB 299 AQSOGS 303
QY 291 VEGPG 296
DB 291 VEGPG 296

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RESULT 4
Q9TOX1 PRELIMINARY; PRT; 304 AA.
ID Q9TOX1;
AC Q9TOX1;
DT 01-MAY-2000 (TREMBlrel. 13, Created)
DT 01-MAY-2000 (TREMBlrel. 13, Last sequence update)
DE 01-OCT-2003 (TREMBlrel. 25, Last annotation update)
DN B7-1 protein precursor.
GN CD80.
OS Canis familiaris (Dog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

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